

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (currently amended) A fused silica glass member resistant to optical damage in ultraviolet radiation in the wavelength range between 190 and 300 nm having an internal transmission greater than or equal to 99.65%/cm at a wavelength of 193 nm, an absolute maximum birefringence along the use of axis of less than or equal to 0.75 nm/cm, H₂ content less than 5×10^{17} molecules/cc, and OH content greater than 300 ppm, wherein the fused silica member exhibits a change in transmittance of less than 0.005/cm after the member has been irradiated with 1×10^{10} shots of 193 nm laser at 1.0 mJ/cm²/pulse.
2. (original) The fused silica glass member of claim 1, wherein the fused silica member has a refractive index homogeneity along the use axis less than or equal to 1 ppm.
3. (canceled)
4. (original) The fused silica glass member of claim 1, wherein the fused silica member has a hydrogen molecule content less than or equal to 2.5×10^{17} molecules/cm³.
5. (original) The fused silica member of claim 1, wherein the member is used as a lens in a photolithographic system.
6. (currently amended) A fused silica glass member resistant to optical damage in ultraviolet radiation in the wavelength range between 190 and 300 nm having an internal transmission greater than or equal to 99.75%/cm at a wavelength of 193 nm, an absolute maximum birefringence along the use axis of less than or equal to 0.5 nm/cm, H₂ content less than 5×10^{17} molecules/cc, and OH content greater than 300 ppm, wherein the fused silica member exhibits a change in transmittance of less than 0.005/cm after the member has been irradiated with 1×10^{10} shots of 193 nm laser at 1.0 mJ/cm²/pulse.

7. (original) The fused silica glass member of claim 6, wherein the fused silica member has a refractive index homogeneity along the use axis less than or equal to 1 ppm.
8. (canceled)
9. (original) The fused silica glass member of claim 6, wherein the fused silica member has a hydrogen molecule content less than or equal to 2.5×10^{17} molecules/cm³.
10. (original) The fused silica member of claim 6, wherein the member is used as a lens in a photolithographic system.